

In the Claims:

Please amend the Claims as follows:

Claim 1 (Previously amended): A light stable hydrophobic polyurethane elastomer comprising the reaction product of:

- A) an isocyanate terminated prepolymer having an isocyanate content ranging from 4 to 12 wt.% NCO comprising the reaction product of:
  - i) an OH terminated homopolymer of butadiene having a molecular weight ranging from 1000 to 4000 and an OH functionality of from 1.9 to 2.1, prepared in the presence of bis(tricyclohexylphosphine) benzyldiene-ruthenium dichloride catalyst; and
  - ii) at least one aliphatic or cycloaliphatic diisocyanate; and
- B) at least one symmetric diol or diamine chain extender having a molecular weight ranging from 62 to 400.

Claim 2 (Original): The elastomer according to Claim 1 wherein said homopolymer of butadiene is dihydroxyl terminated polybutadiene.

Claim 3 (Previously amended): The elastomer according to Claim 1, wherein the OH terminated homopolymer of butadiene is represented by the formula:



wherein n is a number average value from about 8 to 36.

Claim 4 (Previously amended): The elastomer according to Claim 1, wherein said at least one aliphatic or cycloaliphatic diisocyanate is selected from the group consisting of 1,4-tetramethylene diisocyanate, 1,6-hexamethylene diisocyanate, 2,2,4-trimethyl-1,6-hexamethylene diisocyanate, 1,12-dodecamethylene diisocyanate, cyclohexane-1,3- and -1,4-diisocyanate, 1-isocyanato-2-isocyanatomethyl cyclopentane, 1-isocyanato-3-isocyanatomethyl-3,5,5-trimethyl-cyclohexane (isophorone diisocyanate or IPDI), bis-(4-isocyanato-cyclohexyl)-methane, 2,4'-dicyclohexylmethane diisocyanate, 1,3- and 1,4-bis-(isocyanatomethyl)-cyclohexane, bis-(4-isocyanato-3-methylcyclohexyl)-methane,  $\alpha,\alpha,\alpha',\alpha'$ -tetramethyl-1,3- and/or -1,4-xylylene diisocyanate, 1-isocyanato-1-Mo5457

methyl-4(3)-isocyanatomethyl cyclohexane, 2,4- and/or 2,6-hexa-hydrotoluylene diisocyanate and 4,4'-dicyclohexyl-methanediisocyanate (rMDI).

Claim 5 (Previously amended): The elastomer according to Claim 4, wherein said at least one aliphatic or cycloaliphatic diisocyanate is 1-isocyanato-3-isocyanatomethyl-3,5,5-trimethyl-cyclohexane.

Claim 6 (Previously amended): The elastomer according to Claim 4, wherein said at least one aliphatic or cycloaliphatic diisocyanate is 4,4'-dicyclohexyl-methane-diisocyanate.

Claim 7 (Original): The elastomer according to Claim 6, wherein said 4,4' - dicyclohexyl-methanediisocyanate contains about 23% by weight *trans,trans*, 49% by weight *cis,trans*, and 28% by weight *cis,cis* isomer.

Claim 8 (Previously amended): The elastomer according to Claim 1, wherein said at least one symmetric diol or diamine chain extender is selected from the group consisting of 1,6-hexane-diol, 1,8-octanediol, 2-methyl-1,3-propanediol, ethylene glycol, diethylene glycol, dipropylene glycol, 1,4-butanediol, terephthalic acid bis(ethylene glycol), terephthalic acid bis(1,4-butanediol), 1,4-di(hydroxyethyl) hydroquinone, symmetric ethoxylated bisphenols, ethylenediamine, 1,3-propylenediamine, N-methylpropylene-1,3-diamine, N,N'-dimethyl ethylenediamine, 2,6-tolylenediamine, 3,5-diethyl-2,6-tolylenediamine and primary symmetric mono-, di-, tri- or tetraalkyl-substituted 4,4'-diaminodiphenylmethanes.

Claim 9 (Currently amended): The elastomer according to Claim 8, wherein said at least one symmetric diol or diamine chain extender ~~comprises~~ is 1,4-butanediol.

Claim 10 (Previously amended): The elastomer according to Claim 1, wherein the OH terminated homopolymer of butadiene has an OH functionality ranging from 1.95 to 2.0.

Claim 11 (Previously amended): The elastomer according to Claim 1, wherein said isocyanat terminated prepolymer and said at least one symmetric diol or diamine chain extender are combined at an NCO/OH index of between 50 and 150.

Claim 12 (Previously amended): A light stable hydrophobic polyurethane elastomer comprising the reaction product of:

- A) an isocyanate terminated prepolymer having an isocyanate content ranging from 4 to 12 wt.% NCO comprising the reaction product of
  - i) an OH terminated homopolymer of butadiene having a molecular weight ranging from 1000 to 4000 and an OH functionality of from 1.9 to 2.1, prepared in the presence of bis(tricyclohexylphosphine) benzylidene-ruthenium dichloride catalyst, and
  - ii) at least one aliphatic or cycloaliphatic diisocyanate; and
- B) 1,4-butanediol.

Claim 13 (Previously amended): A process for preparing a light stable hydrophobic polyurethane elastomer comprising:

- A) forming a polyurethane reactive mixture by reacting
  - i) an isocyanate terminated prepolymer having an isocyanate content ranging from 4 to 12 wt.% NCO comprising the reaction product of:
    - a) an OH terminated homopolymer of butadiene having a molecular weight ranging from 1000 to 4000 and an OH functionality of from 1.9 to 2.1, prepared in the presence of bis(tricyclohexylphosphine) benzylidene-ruthenium dichloride catalyst, and
    - b) at least one aliphatic or cycloaliphatic diisocyanate; with
  - ii) at least one symmetric diol or diamine chain extender having a molecular weight ranging from 62 to 400;

and

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- 4 -

B) curing the reactive mixture in a mold.

Claim 14 (Previously amended): A process for preparing a light stable hydrophobic polyurethane elastomer comprising:

- A) forming a polyurethane reactive mixture by reacting:
- i) an isocyanate terminated prepolymer having an isocyanate content ranging from 4 to 12 wt.% NCO comprising the reaction product of
    - a) an OH terminated homopolymer of butadiene having a molecular weight ranging from 1000 to 4000 and an OH functionality of from 1.9 to 2.1, prepared in the presence of bis(tricyclohexylphosphine) benzyldiene-ruthenium dichloride catalyst, and
    - b) at least one aliphatic or cycloaliphatic diisocyanate;
  - with
  - ii) 1,4-butanediol;
- and
- B) curing the reactive mixture in a mold.